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PATENTS
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Genichi Kakefuda, et al.

Examiner: Not Yet Assigned

Serial No. 09/893,033

Art Unit: Not Yet Assigned

Filed: June 27, 2001

For: Cyanobacterial Nucleic Acid
Fragments Encoding Proteins
Useful for Controlling Plant
Traits Via Nuclear Or
Plastome Transformation

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, DC 20231

Sir:

The citation of information on the attached two (2) pages of Form PTO-1449, "List of Art Cited by Applicants" is made pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98. A copy of each cited item is enclosed.

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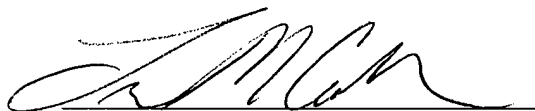
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner for Patents, Washington, DC 20231 on September 27, 2002.

Lisa M. Cobern - Reg. No. 44,669

Serial No. 09/893,033
Filed: June 27, 2001
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any cited item is available as a reference, or a waiver of any right the applicant may have under applicable statutes, Rules of Practice in patent cases, or otherwise.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'L M Cobern', written over a horizontal line.

Lisa M. Cobern
Reg. No. 44,669

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Attorney Docket No.: 16313-0130

FORM PTO-1649, 2/99



LIST OF INFORMATION DISCLOSED BY APPLICANT

(Use several sheets if necessary)

ATTORNEY DOCKET NUMBER 16313-0130	SERIAL NO. 09/893,033	FILING DATE June 27, 2001
APPLICANTS Genichi Kakefuda et al.		GROUP Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,378,824	1-3-95	E. I. Du Pont de Nemours and Co.	536	23.6	
	5,661,017	8-26-97	Dunahay et al.	435	172.3	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION	
					YES	NO.
	96/28014	9-19-96	WO	Yissum Research Development Company Of The Hebrew University Of Jerusalem		X
	98/06862	2-19-98	WO	Calgene, Inc.		X
	98/20144	5-14-98	WO	Zeneca Limited		X
	6343473	12-20-94	JP	Kirin Brewery Co. Ltd.		X

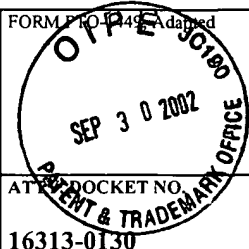
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	Babczynski et al., 1995 Pestic. Biochem. Physiol., 52(1): 33-44 "Substituted Tetrahydropyrimidinones: A New Herbicidal Class of Compounds Inducing Chlorosis by Inhibition of Phytoene Desaturation".
✓	Böger, P. and Sandmann, G., 1998 Pesticide Outlook, 6:29-35 "Carotenoid Biosynthesis Inhibitor Herbicides - Mode of Action and Resistance Mechanisms".
✓	Chamovitz et al., 1993 J. Biol. Chem. 23: 17348-53. Vol. 268 "Molecular and Biochemical Characterization of Herbicide-Resistant Mutants of Cyanobacteria Reveals that Phytoene Desaturation is a Rate-Limiting Step in Carotenoid Biosynthesis".
✓	Clarke et al., 1985 Pestic. Biochem. Physiol., 23(3): 335-340 "Phytotoxicity of m-Phenoxybenzamides: Inhibition of Cell-Free Phytoene Desaturation".
✓	Duggleby, 1997 Gene, 190: 245-249 "Identification of an Acetolactate Synthase Small Subunit Gene in Two Eukaryotes".
✓	Dzelzkalns & Bogorad, 1988 The EMBO Journal, Vol. 7: 333-338 "Molecular Analysis of a Mutant Defective in Photosynthetic Oxygen Evolution and Isolation of a Complementing Clone by a Novel Screening Procedure".
✓	Freidberg, D. et al., 1990 Z Naturforsch, C, 45(5): 538-543 "Molecular Characterization of Genes Coding for Wild-Type and Sulfonylurea-Resistant Acetolactate Synthase in the Cyanobacterium <i>Synechococcus</i> PCC7942".
✓	Hattori et al., 1995 Mol. & Gen. Genet., 246: 419-425 "An Acetohydroxy Acid Synthase Mutant Reveals a Single Site Involved in Multiple Herbicide Resistance".
✓	Kaneko et al., 1995 DNA Research 2:153-166 "Sequence Analysis of the Genome of the Unicellular Cyanobacterium <i>Synechocystis</i> sp. Strain PCC6803. I. Sequence Features in the 1 Mb Region from Map Positions 64% to 92% of the Genome".
✓	Kowalczyk-Schroder & Sandmann, G., 1992 Pestic. Biochem. Physiol., 42(1): 7-12 "Interference of Fluridone with the Desaturation of Phytoene by Membranes of the Cyanobacterium <i>Aphanocapsa</i> ".
✓	Linden et al., 1990 Pesticide Biochem. Physiol., 36: 46-51 "Biochemical Characterization of <i>Synechococcus</i> Mutants Selected against the Bleaching Herbicide Norflurazon".

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449-Adapted



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ATTACHMENT NO. 16313-0130	SERIAL NO. 09/893,033	FILING DATE June 27, 2001
APPLICANTS Genichi Kakefuda et al.		GROUP Unknown

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

<input checked="" type="checkbox"/>	Martinez-Ferez et al., 1992 Plant Molecular Biology 18: 981-983 "Nucleotide Sequence of the Phytoene Desaturase Gene from <i>Synechocystis</i> sp. PCC 6803 and Characterization of a New Mutation which Confers Resistance to the Herbicide Norflurazon".
<input checked="" type="checkbox"/>	Martinez-Ferez et al., 1994 Pestic. Biochem. Physiol., 48: 185-190. "Mutagenesis of an Amino Acid Responsible in Phytoene Desaturase from <i>Synechocystis</i> for Binding of the Bleaching Herbicide Norflurazon".
<input checked="" type="checkbox"/>	Mifflin, B.J., 1971 Arch Biochem. Biophys., 146: 542-550 "Cooperative Feedback Control of Barley Acetohydroxyacid Synthetase by Leucine, Isoleucine, and Valine".
<input checked="" type="checkbox"/>	Milano et al., 1992 J. Gen Microbiol 138: 1399-1408 "Molecular Characterization of the Genes Encoding Acetohydroxy Acid Synthase in the Cyanobacterium <i>Spirulina platensis</i> ".
<input checked="" type="checkbox"/>	Porter, R.D., 1988 "[78] DNA Transformation," Methods in Enzymology, 167: 703-712.
<input checked="" type="checkbox"/>	Powell, et al., 1990 Br. Phycol. J., 25(1): 93 "Antibody probes to Investigate the Outer Surface of the Gas Vesicle".
<input checked="" type="checkbox"/>	Sandmann et al., 1991 Weed Science, 39: 474-479. "Phytoene Desaturase, the Essential Target for Bleaching Herbicides".
<input checked="" type="checkbox"/>	Sandmann et al., 1996 Z Naturforsch, 51(7-8): 534-538 "A New Non-Radioactive Assay of Phytoene Desaturase to Evaluate Bleaching Herbicides".
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<input checked="" type="checkbox"/>	Sandmann et al., 1992 Res. Photosynth. Proc. Int. Congr., 3: 51-54. "Diversity of Phytoene Desaturating Enzymes and Corresponding Genes Involved in Carotenoid Biosynthesis of Photoautotrophic Prokaryotes".
<input checked="" type="checkbox"/>	Sandmann et al., 1992 Pestic. Biochem. Physiol., 42(1): 1-6 (1992) "Quantitative Structure-Activity Relationship of Fluridone Derivatives with Phytoene Desaturase".
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<input checked="" type="checkbox"/>	Singh et al., 1988 Anal. Biochem., 171:173-179. (1988) "Assay of Acetohydroxyacid Synthase".
<input checked="" type="checkbox"/>	Singh et al., 1988 J. Chromatography, 444: 251-261 "Separation and Characterization of Two Forms of Aceto-Hydroxy Acid Synthase from Black Mexican Sweet Corn Cells".
<input checked="" type="checkbox"/>	Weinstock et al., 1992 J. Bacteriology., 174: 5560-5566 "Properties of Subcloned Subunits of Bacterial Acetohydroxy Acid Synthases".
<input checked="" type="checkbox"/>	Williams, 1988, Methods in Enzymology, 167: 766-778 "[85] Construction of Specific Mutations in Photosystem II Photosynthetic Reaction Center by Genetic Engineering Methods in <i>Synechocystis</i> 6803".
<input checked="" type="checkbox"/>	Windhövel et al., 1994 Pestic. Biochem. Physiology, 49(1): 63-71 "Engineering Cyanobacterial Models Resistant to Bleaching Herbicides".
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<input checked="" type="checkbox"/>	Windhövel et al., 1994 Plant Physiology, 104(1): 119-125 "Expression of <i>Erwinia uredovora</i> Phytoene Desaturase in <i>Synechococcus</i> PCC7942 Leading to Resistance against a Bleaching Herbicide".

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